



Work Experience

June 2009 – Feb. 2010 Internship at Mitsubishi Electric R&D, Japan.
Development of an radar anti-intrusion system

Education

2007 – 2009 M.S. in micro-engineering,
Swiss Federal Institute of Technology Lausanne (EPFL)
*Sept. 2008 – Feb. 2009 Diploma project: Direct methanol fuel cell.
Improved fabrication processes for a portable fuel cell running on methanol.*
*February – May 2008 Semester project: Nano-structure deposition system using wafer stencils
Developed electrostatic chuck in MEMS technology. Experience of cleanroom fabrication processes.*
*Sept. 2007 – Jan. 2008 Semester project: Digital oscilloscope with USB interface.
Designed analog amplification and conversion electronics, developed visualisation software.*

2003 – 2008 B.S. in micro-engineering at EPFL
*July – September 2007 Training on microstrips for microwave application
at King Mongkut Institute of Technology, North Bangkok, Thailand.*

Engineering skills

Design Micro-electro-mechanical systems (MEMS)
Electronic circuits (analog, digital, integrated)
General mechanical design (CAD), industrial norms

Manufacturing Cleanroom work experience
Laser machining
Mechanical workshop
Printed circuit board design and assembly

Computer skills

Development C, C++, Java, Python, Assembler
Embedded micro-controller systems: Microchip PIC, Atmel AVR, Intel 8051
Image processing, computer vision
web applications with PHP, Python, HTML, Javascript

Numerical analysis MATLAB

CAD Pro/Engineer, finite element method with COMSOL/FEMLAB
Electronic circuits using Cadence, Eagle, SPICE

Languages

German native language
English Fluent (Cambridge Certificate in Advanced English)
French Proficient (studies in the french-speaking part of Switzerland)
Japanese, Italian Rudimentary level

Other interests and activities

Amateur robotics Participaton with fellow students in national contests in 2006 and 2007.
Involved in mechanical design, electronics, programming.

Sports Physical exercise, ballroom dancing, scuba diving